



***ForeThought 4.1* for the PC and Macintosh  
Release Notes**

**Software Version 4.1**

**MANU0191-01 - Rev. B - 7/11/97**

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## 1.0 General Description of Software Release

These release notes highlight the features that have been added to or have changed in the *ForeThought* 4.1 release.

Refer to the manual included with this release for comprehensive information on system requirements and driver installation.

## 2.0 System Requirements

The *ForeThought* 4.1 adapter software requires that *ForeThought* 4.0.x or greater software also run on a switch, PowerHub 7000, SunOS workstation, or Solaris workstation in your network, in order to accommodate the LAN Emulation Services. Please contact FORE Systems for information on upgrading your switch software if necessary.

## 3.0 Improvements

### 3.1 Common

- The *ForeThought* drivers' reliability has been improved for all operating systems and platforms.
- The *ForeThought* drivers now allow configuration of MTU size.
- The *ForeThought* drivers now support ILMI address registration for multiple adapters in a host.
- The *ForeThought* drivers now support UNI 3.0 and UNI 3.1 signalling, and automatic UNI configuration via ILMI.
- The InFOREmation Center utility, an expanded and improved version of the FORE ATM Statistics utility, allows you to view information about the driver and its current connections.

### 3.2 NetWare

- The driver now supports NetWare 4.11.
- The driver now supports NetWare 4.1 and 4.11 SMP.
- The driver now supports Token Ring emulated LANs.
- NetWare SFT III can be used with these drivers if the SET MINIMUM PHYSICAL RECEIVE PACKET parameter in the STARTUP.NCF file is set to the value recommended in the FORE manual, plus the value recommended in the documentation for the inter-server link. Note that the driver only supports the link to the network. The inter-server link is not supported.

### 3.3 Windows NT and Windows 95

- The FORE ATM Service Provider is now available for use with WinSock 2.2.
- The driver now supports Token Ring emulated LANs.
- The driver now supports Classical IP (RFC 1577).

## 3.4 OS/2 Warp

- The driver now supports OS/2 Warp version 4.
- The driver now supports Token Ring emulated LANs.

## 4.0 Known Issues or Concerns

### 4.1 Common

- This release, *ForeThought* 4.1, is the last *ForeThought* release that will support the non-200E series adapters (PCA-200PC and ESA-200PC). FORE will continue to support the PCA-200EPC, PCA-200EMAC and ESA-200EPC.
- As indicated in the manual, be sure to install the FORE adapters in a Bus Master slot.
- Depending on the BIOS version you are using, the FORE adapters might not run on the IBM 320. If you encounter this problem with an LE or PCA adapter, please install the latest BIOS for this machine, dated 6/19/96 or later. This BIOS is available from IBM's web site as the file 320BIOSE.EXE, where it is listed as:

**PC Server PCI/EISA BIOS 16T3B (313191 bytes, 07-15-96)**

After expanding 320biose.exe the BIOSLEVL file should contain:

**BIOS Code version: M54Pe\_16T3B dated: 06/19/96**

The ESA adapters may still encounter problems with this machine.

- When running the drivers on an HP Vectra, turn off the Ethernet controller.
- Due to a BIOS problem with Compaq, the FORE ESA adapter may not work when the Compaq has 64M RAM. If this occurs, run the EISA configuration utility and change the EISA base address to a higher setting such as 96M.
- These drivers will not inter-operate with release 1.x of PC and Mac adapter software from FORE.
- No SPANS support.
- No FORE IP support.
- No FORE LAN Emulation 0.4 support.

**NOTE:** SPANS, FORE IP, and FORE LAN Emulation 0.4 ARE supported and maintained with the *ForeThought* 1.2 drivers. Contact FORE Systems for information on obtaining the *ForeThought* 1.2 drivers.

### 4.2 NetWare

- In the "Required NetWare Start-up Parameters" section (page 4-4 of the printed *Installation Manual*, page 4-5 of the *User's Manual* contained as a PDF file on the CD), in the subsection "Set Minimum Packet Receive Buffers", the text "In this parameter, the variable <n> has the value 150 for your first adapter card..." should read "In this parameter, the variable <n> has the value 200 for your first adapter card..." The rest of the text and the example showing **set minimum packet receive buffers=200** are correct.
- Incorrectly configuring the number of maximum physical buffers with the FORE drivers can cause abends. Refer to the manual for information on the appropriate values for NetWare start-up parameters.

- This driver requires that you are using the latest NetWare patch releases for your version of NetWare. These updates are available from the Novell web site at [www.novell.com](http://www.novell.com). Please ensure that these updates include the latest patch for `LOADER.EXE`.
- With the FORE drivers running on NetWare 3.12, some early versions of `ROUTE.NLM` may not load. You must upgrade to a later version of `ROUTE.NLM`. These updates are available from the Novell web site at [www.novell.com](http://www.novell.com).
- Due to an issue with NetWare 4.11, a Windows NT 3.51 client cannot connect to a NetWare 4.11 SMP server, although the NetWare server appears in the client's File Manager. The message "The Network path was not found" appears. If additional NetWare servers are running on the network, the client is able to connect.
- The *ForeRunnerLE* 155 Mbps adapters do not work in an IBM 720 running NetWare 4.1 SMP.
- With the FORE drivers running on an IBM 320 (8640) running NetWare 4.11 in SMP mode, the NetWare server is unable to synchronize its directory structure with other NetWare 4.1x servers when the directory services are being installed. The server displays a warning message stating that it is waiting for the time to synchronize and the server loses IP/IPX connectivity.
- The virtual slot number parameter for the `FOREVETH` command is no longer supported.

### 4.3 Windows NT and Windows 95

- When using IPX/SPX, the Auto-detect frame type may not always work. If it does not, set the frame type manually.
- Sporadically Windows 95 halts when the driver is removed and the system is rebooted. Power cycle the system to proceed.
- In some circumstances, the Windows 95 plug and play feature does not discover the adapter card and does not automatically install the *ForeRunner* ATM driver. This most often occurs in two situations:
  - At some previous time, when the adapter card was discovered by Windows 95 at boot-up and the New Hardware Found dialog box appeared, the "Do not install a driver (Windows will not prompt you again)" option was chosen.
  - Another adapter had been previously installed in the machine.

In this case, check for an unknown (question-mark) entry for the previously-installed adapter in the Device Manager tab of the System Properties control panel. You can delete the unknown entry using the procedure in the Windows 95 installation chapter of the manual, in the section "Installing the ATM Driver Manually." After deleting the unknown entry and re-booting, Windows 95 will discover the adapter card and you can install the driver via plug-and-play, as described in the manual.
- Due to binding constraints in Windows NT, some machines can support only 12 Token-Ring ELANs, rather than a total of 16. If your machine is unable to load 16 Token-Ring ELANs, reduce the number of ELANs that the machine is attempting to join to 12.
- When using a FORE adapter in a Windows NT machine to route between a Token Ring ELAN and a legacy Token Ring LAN, note that the legacy LAN clients must set their default gateway to the address Windows NT machine that is routing.
- Because the FORE Statistics utility has been renamed InFOREmation Center, any Task Bar links or shortcuts created to an earlier version of the utility will not be updated when the *ForeThought* 4.1 drivers and software are installed.
- Windows NT on MIPS and PowerPC platforms are no longer supported. Intel and DEC Alpha platforms are still supported.

- When using these drivers with the PCA-200EPC adapter in some laptop computers and docking stations, you may receive the error “docking station failed request” when undocking from the docking station. You must shutdown and reboot the system.
- Due to problems in the DEC AlphaStation 500 BIOS and SCSI controller, PCA-200EPC adapters do not work with that machine.
- In the InFOREmation Center utility, depending on connection status, connection information may appear in yellow. If the yellow text is not readable on your machine, please adjust your screen resolution to improve clarity and contrast.
- Due to a known problem FORE is investigating, when using the Automatic ELAN selection, the Failover mechanism does not work.
- Note that when you configure an ELAN driver, the LECS configuration applies to all ELAN drivers. All ELAN drivers must use the same LECS, whether you use the well-known address, PVC (0,17), or manually enter the address.
- Due to limits with Windows NT Services for Macintosh, you are limited to a combined total of eight ELAN and IP Over ATM drivers when using Windows NT Services for Macintosh.
- Due to a known problem in the Microsoft PCI configuration driver file, the *ForeRunnerLE* adapters may encounter installation difficulties when installing on Windows 95 OSR2. The Microsoft problem is described in Microsoft PR Q164873. If you encounter this problem please contact FORE technical support.

## 4.4 OS/2 Warp

- If you attempt to install the *ForeRunner* drivers during installation of the OS/2 Warp operating system, you can only install the *ForeRunner* ELAN driver. You must install the *ForeRunner* ATM driver after you have fully installed OS/2 Warp, as described in the manual.
- This driver does not work with OS/2 SMP.

## 4.5 Macintosh

- This software **requires** Open Transport. It will not operate without it. Open Transport does not yet support multihoming; this driver is connected to only one emulated LAN at any given time.
- This software does not currently support multiple adapters in a single Macintosh.



## 4.6 FORE WinSock2 ATM Service Provider

This release of the FORE ATM Service Provider does **not** support the following WinSock2 capabilities:

- Multiple adapters. The FORE ATM Service Provider supports only one adapter.
- CBR support on the ESA-200EPC and PCA-200EPC adapters. CBR is supported on the *ForeRunnerLE* adapters only.
- VPI's other than zero. The FORE ATM Service Provider supports only a VPI of zero.

To get the latest FORE WinSock2 Service Provider files, related release notes, and required FORE drivers, download the files from the FORE FTP site, using the following procedure:

1. FTP to FTP.FORE.COM.
2. Use the username ANONYMOUS.
3. Use your email address as your password.
4. Set your mode to binary.
5. Change directory to /pub/winsock2.
6. Get the file FORESP.ZIP.

## 5.0 Contacting Technical Support

In the USA, you can contact FORE Systems' Technical Support by any one of four methods:

1. If you have access to the Internet, you may contact FORE Systems' Technical Support via e-mail at the following address:

**support@fore.com**

2. You may FAX your questions to "support" at:

**412-742-7900**

3. You may send questions, via US Mail, to the following address:

**FORE Systems, Inc.  
1000 FORE Drive  
Warrendale, PA 15086-7502**

4. You may telephone your questions to "support" at:

**1-800-671-FORE**

If you cannot dial an 800 number, please use:

**1-412-635-3700**

Technical support for non-U.S.A. customers should be handled through your local distributor.

No matter which method is used for technical support, please be prepared to provide the serial number(s) of the product(s) and as much information as possible describing your problem or question.

